

FIG. 1

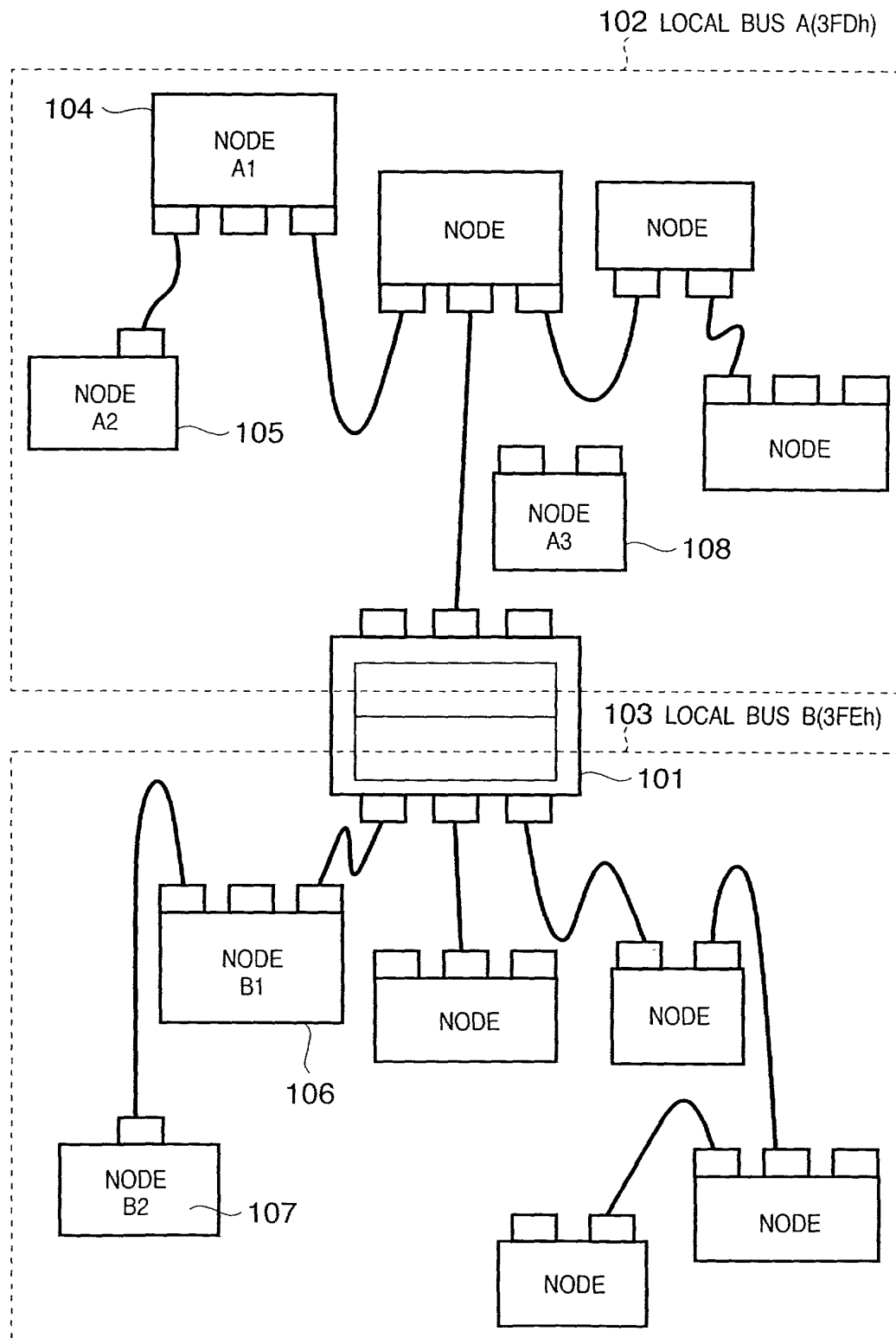


FIG. 2

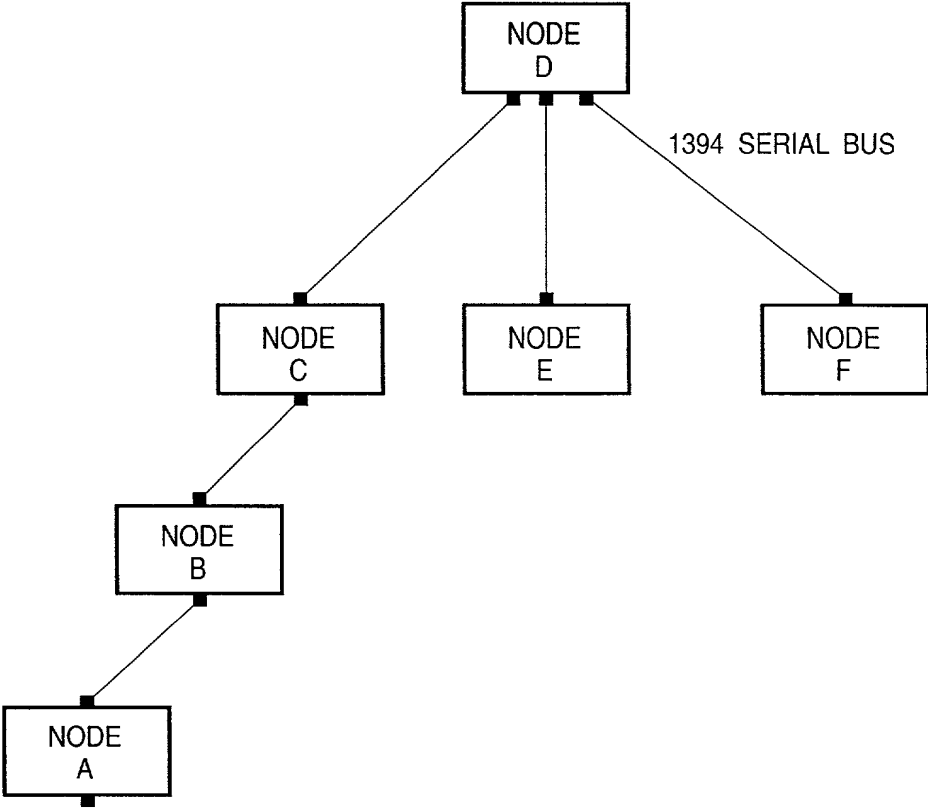


FIG. 3

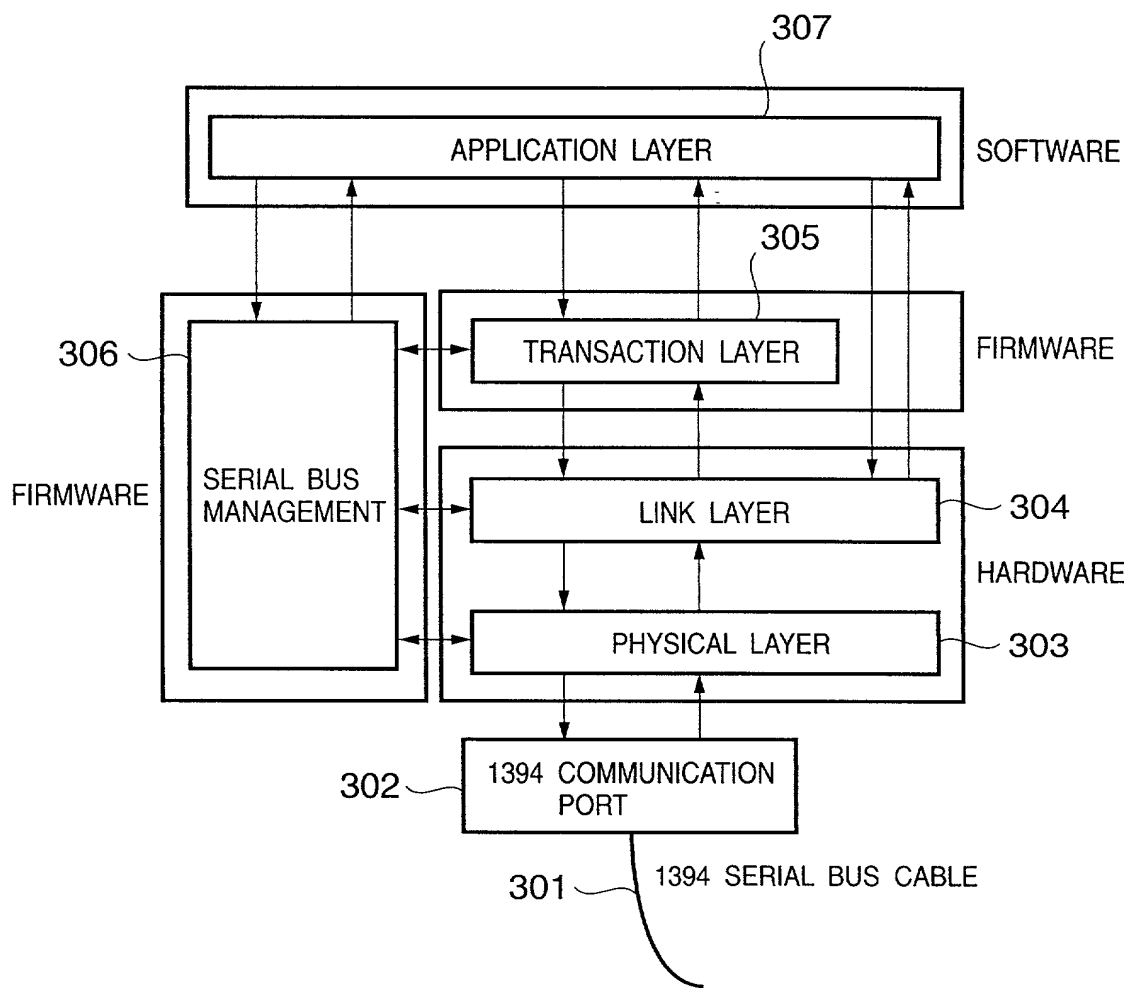


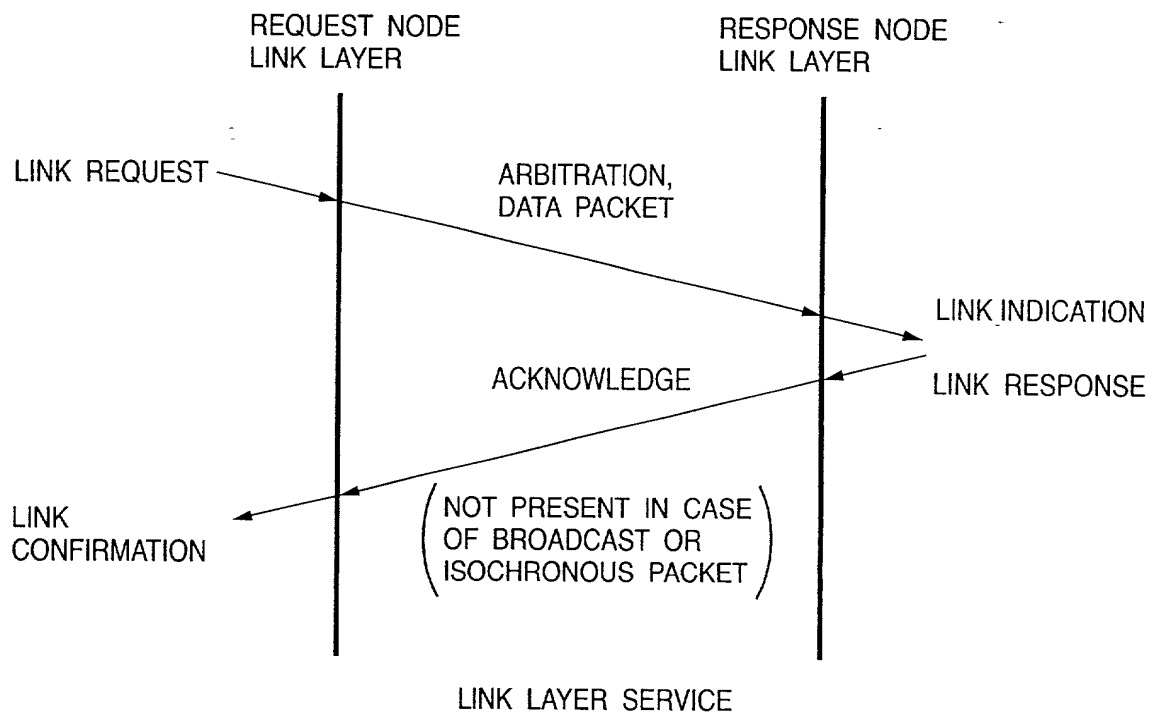
FIG. 4

FIG. 5

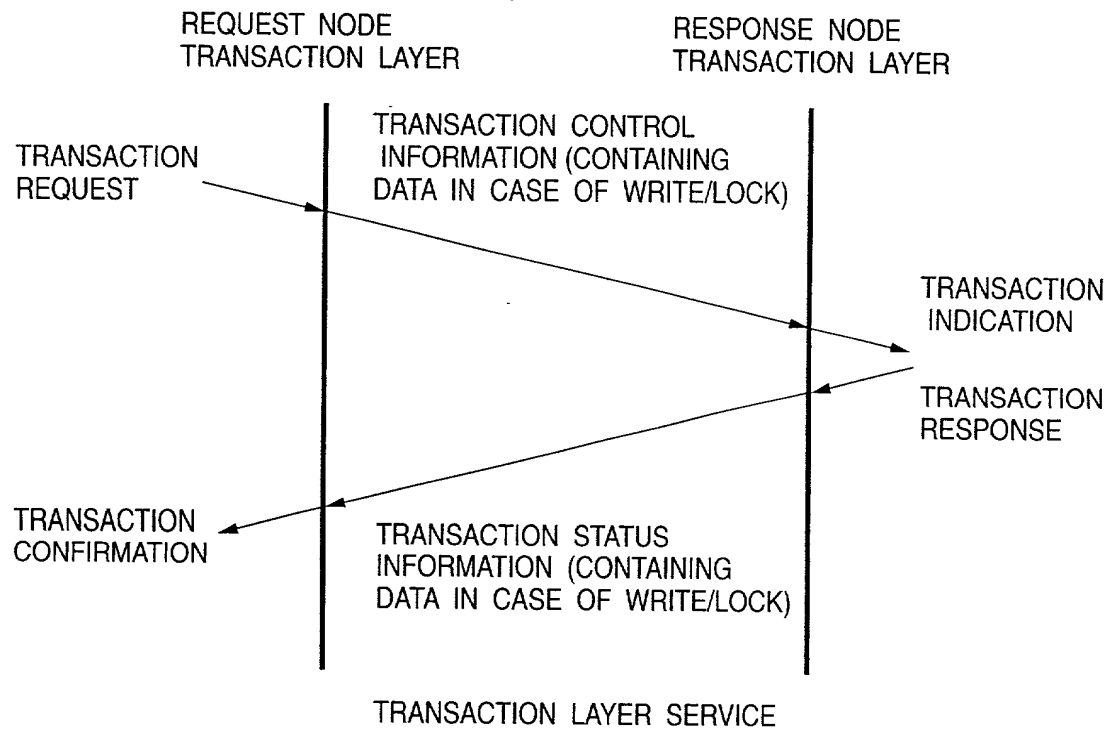


FIG. 6

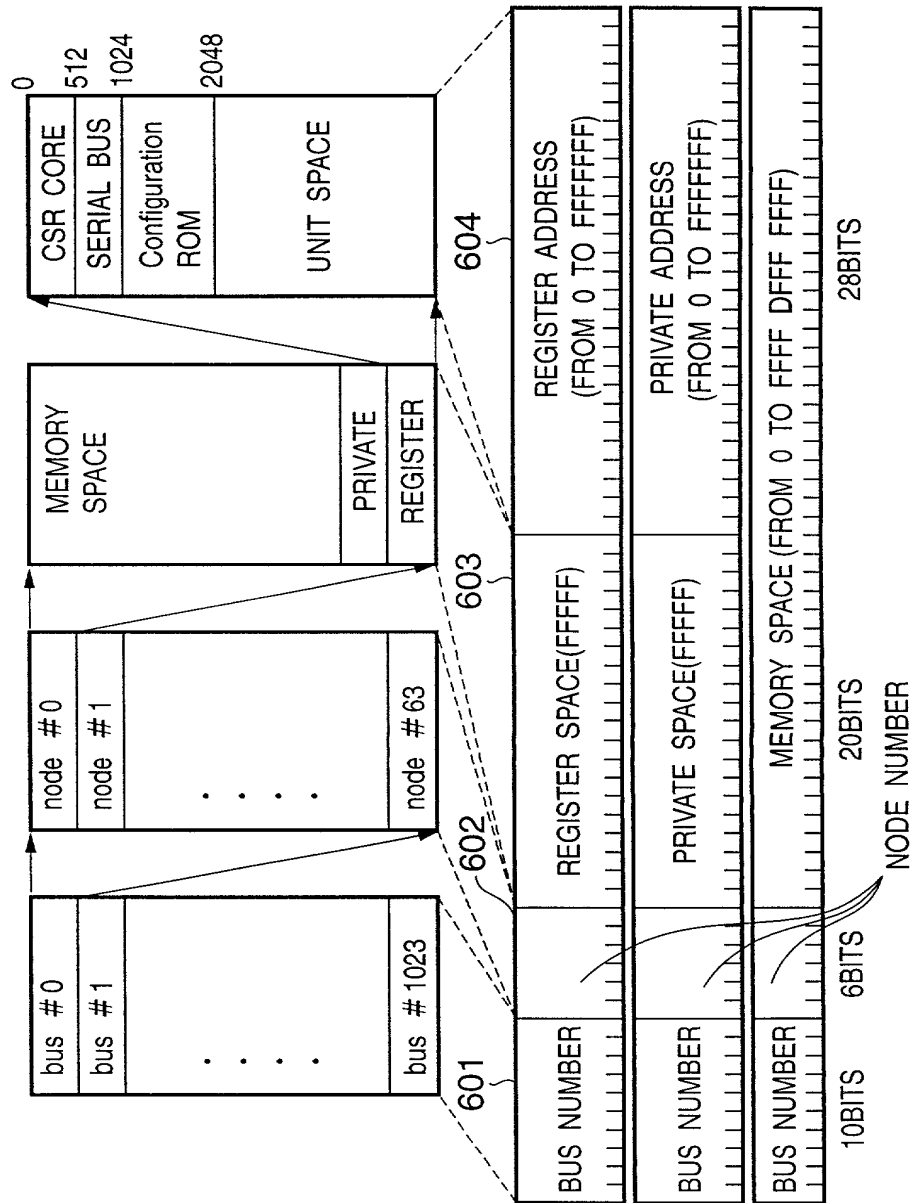


FIG. 7

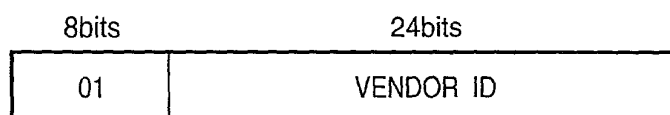
CSR CORE REGISTER

OFFSET (HEXADECIMAL)	REGISTER NAME	FUNCTION
000	STATE_CLEAR	INFORMATION OF STATUS AND CONTROL
004	STATE_SET	INFORMATION INDICATING WRITE ENABLE/DISABLE OF STATE_CLEAR
008	NODE_IDS	BUS ID + NODE ID
00C	RESET_START	RESET BUS BY WRITE IN THIS AREA
010~014	INDIRECT_ADDRESS, INDIRECT_DATA	REGISTER FOR ACCESSING ROM LARGER THAN 1K
018~01C	SPLIT_TIMEOUT	VALUE OF TIMER FOR DETECTING TIME-OUT OF SPLIT TRANSACTION
020~02C	ARGUMENT,TEST_START, TEST_STATUS	DIAGNOSIS REGISTER
030~04C	UNITS_BASE,UNITS_BOUND, MEMORY_BASE, MEMORY_BOUND	NOT USED IN IEEE1394
050~054	INTERRUPT_TARGET, INTERRUPT_MASK	INTERRUPT INDICATION REGISTER
058~07C	CLOCK_VALUE, CLOCK_TICK_PERIOD, CLOCK_STOROB_E_ARRIVED, CLOCK_INFO	NOT USED IN IEEE1394
080~0FC	MESSAGE_REQUEST, MESSAGE_RESPONSE	MESSAGE INDICATION REGISTER
100~17C		RESERVED
180~1FC	ERROR_LOG_BUFFER	RESERVED FOR IEEE1394

FIG. 8

SERIAL BUS REGISTER

OFFSET (HEXADECIMAL)	REGISTER NAME	FUNCTION
200	CYCLE_TIME	COUNTER FOR ISOCHRONOUS TRANSFER
204	BUS_TIME	REGISTER FOR SYNCHRONIZING TIME
208	POWER_FAIL_IMMINENT	REGISTER ASSOCIATED WITH POWER SUPPLY
20C	POWER_SOURCE	
210	BUSY_TIMEOUT	CONTROL RETRY OF TRANSACTION LAYER
214~218		RESERVED
21C	BUS_MANAGER_ID	NODE ID OF BUS MANAGER
220	BANDWIDTH_AVAILABLE	MANAGE BANDWIDTH OF ISOCHRONOUS TRANSFER
224~228	CHANNELS_AVAILABLE	MANAGE CHANNEL NUMBER OF ISOCHRONOUS TRANSFER
22C	MAINT_CONTROL	DIAGNOSIS REGISTER
230	MAINT_UTILITY	
234~3FC		RESERVED

FIG. 9

CONFIGURATION ROM OF MINIMAL FORMAT

FIG. 10

Bus Info Block Length	ROM Length	CRC	
Bus Info Block			1001
Root Directory			1002
Node dependent info directory			1003
Unit directories			1004
Root & unit leaves			1005
Vendor dependent information			1006

FIG. 11

SERIAL BUS DEVICE REGISTER

OFFSET (HEXADECIMAL)	REGISTER NAME	FUNCTION
800~FFC		RESERVED
1000~13FC	TOPOLOGY_MAP	CONFIGURATION INFORMATION OF SERIAL BUS
1400~1FFC		RESERVED
2000~2FFC	SPEED_MAP	INFORMATION OF TRANSFER RATE OF SERIAL BUS
3000~FFFC		RESERVED

FIG. 12

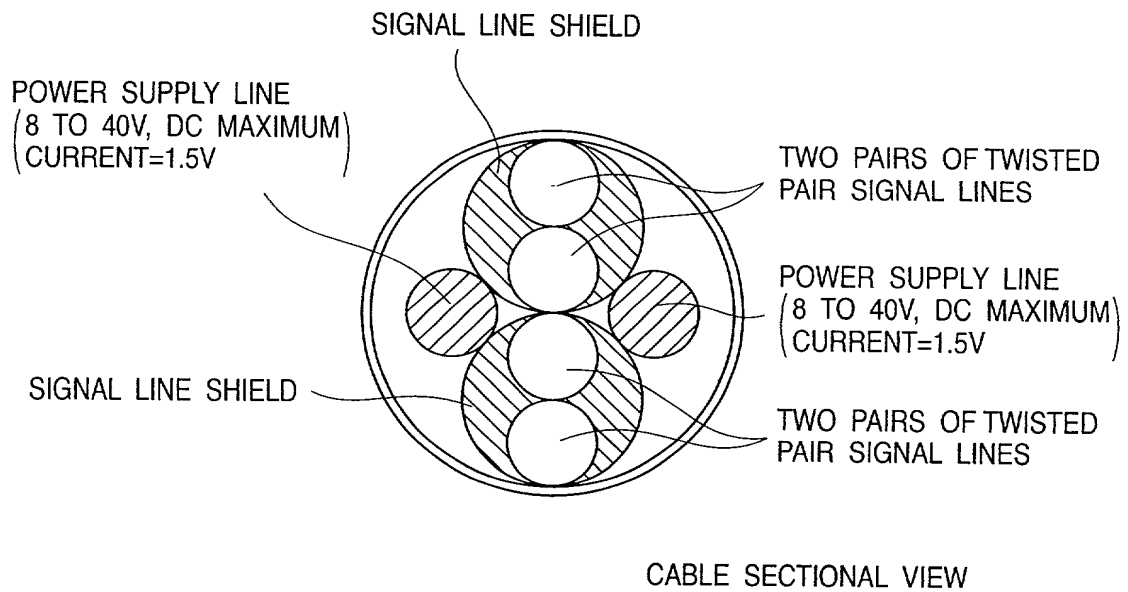
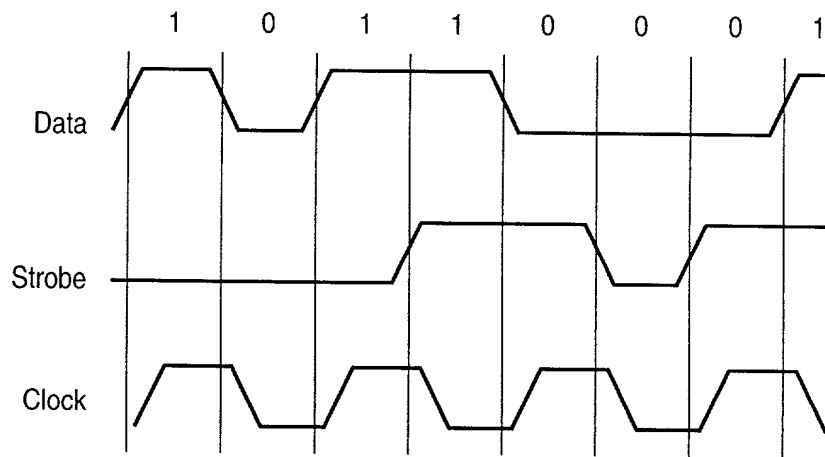


FIG. 13

EX-OR SIGNAL OF DATA AND STROBE

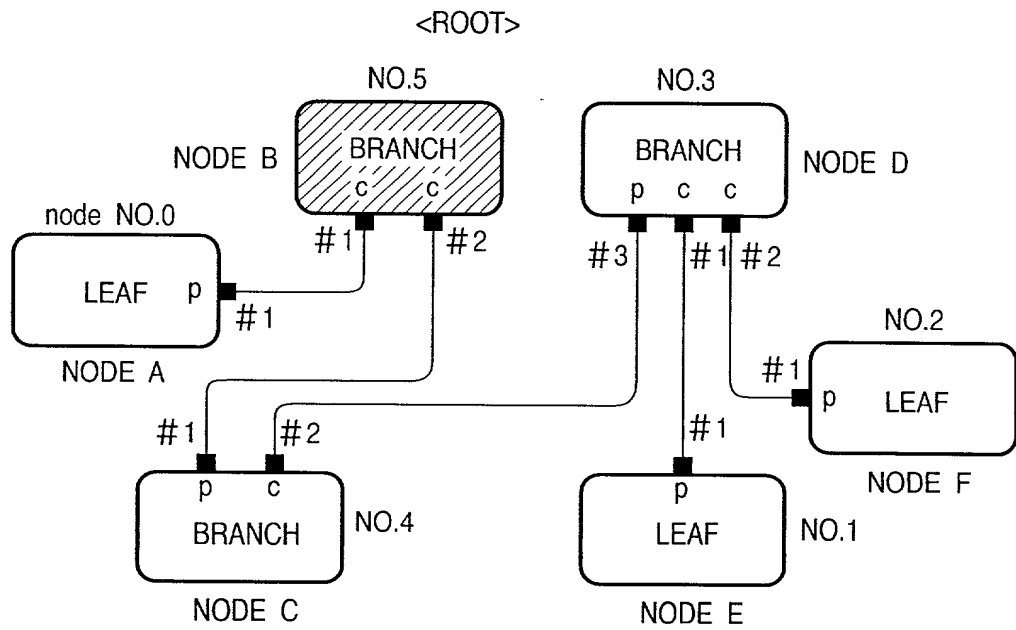
FIG. 14

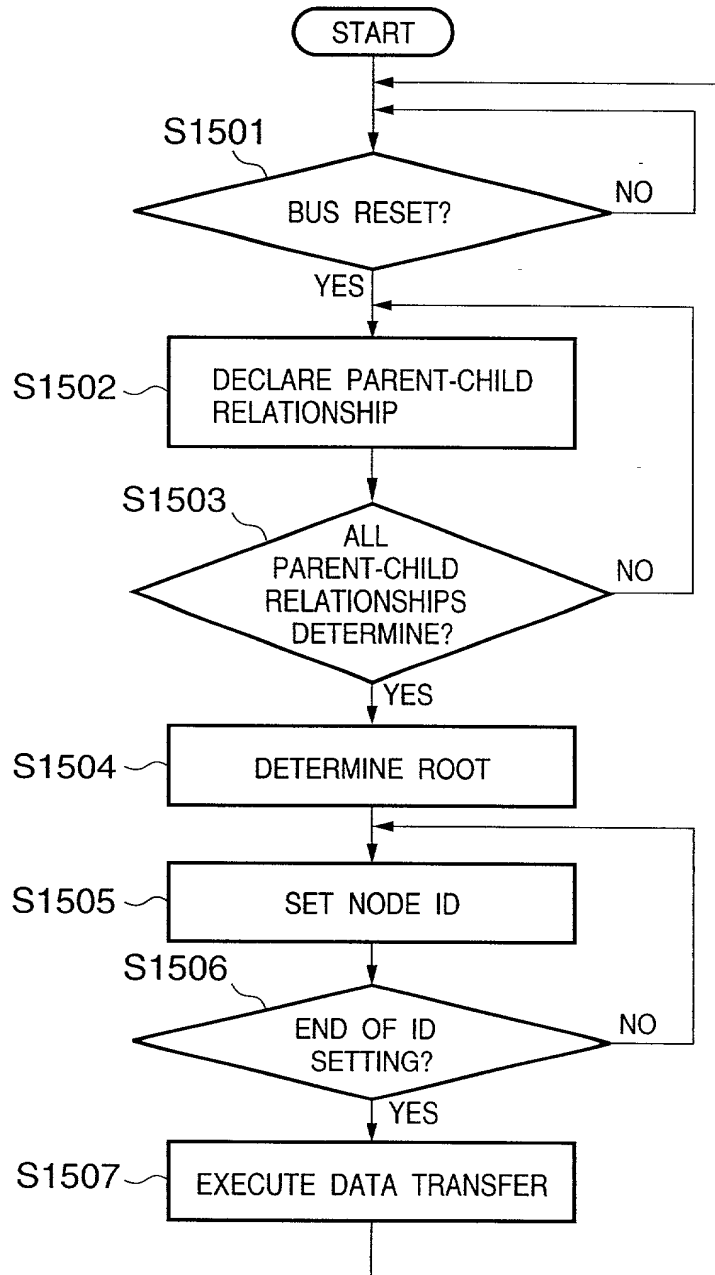
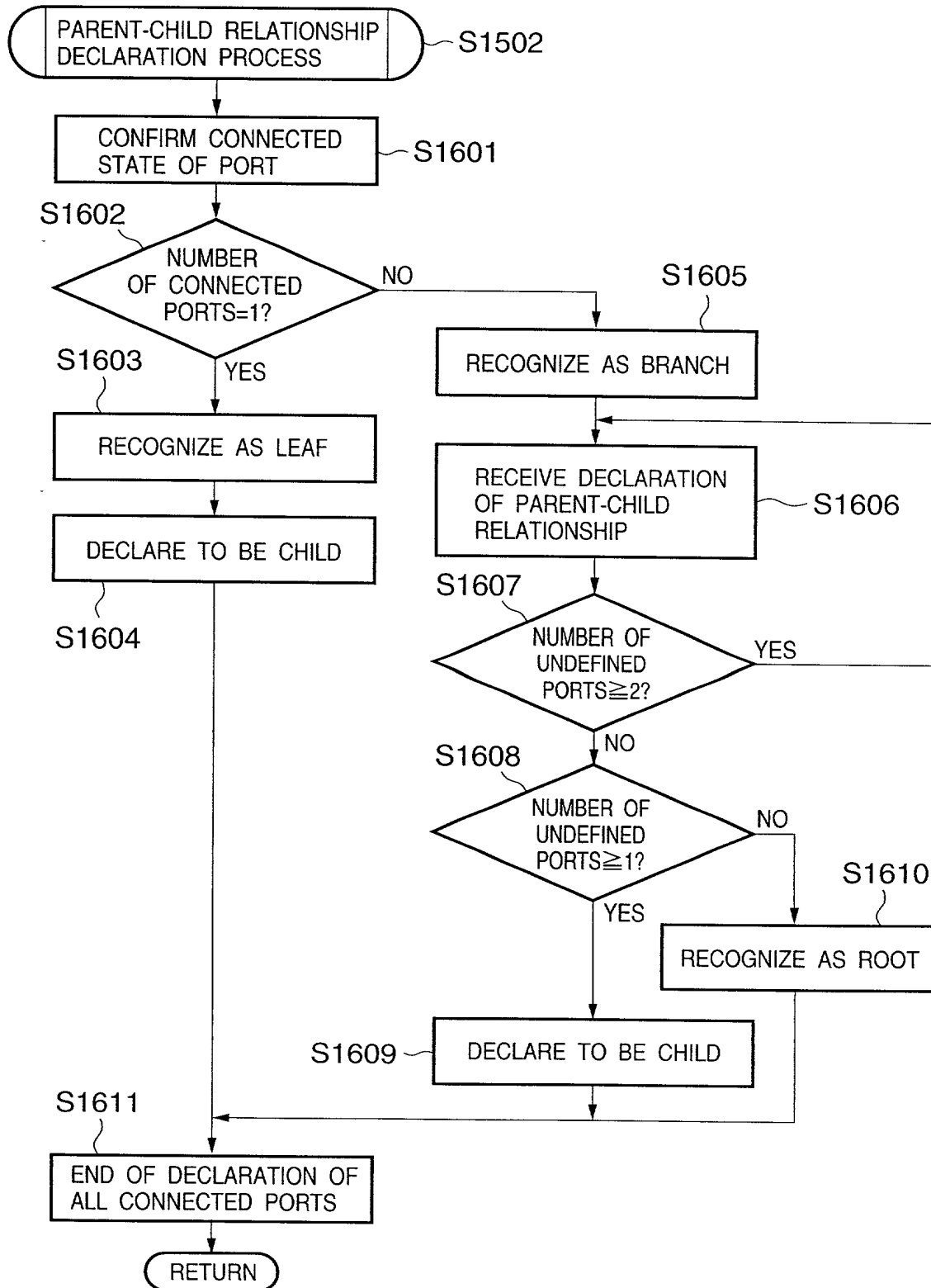
FIG. 15

FIG. 16

S1505

NODE ID SETTING PROCESS

FIG. 17

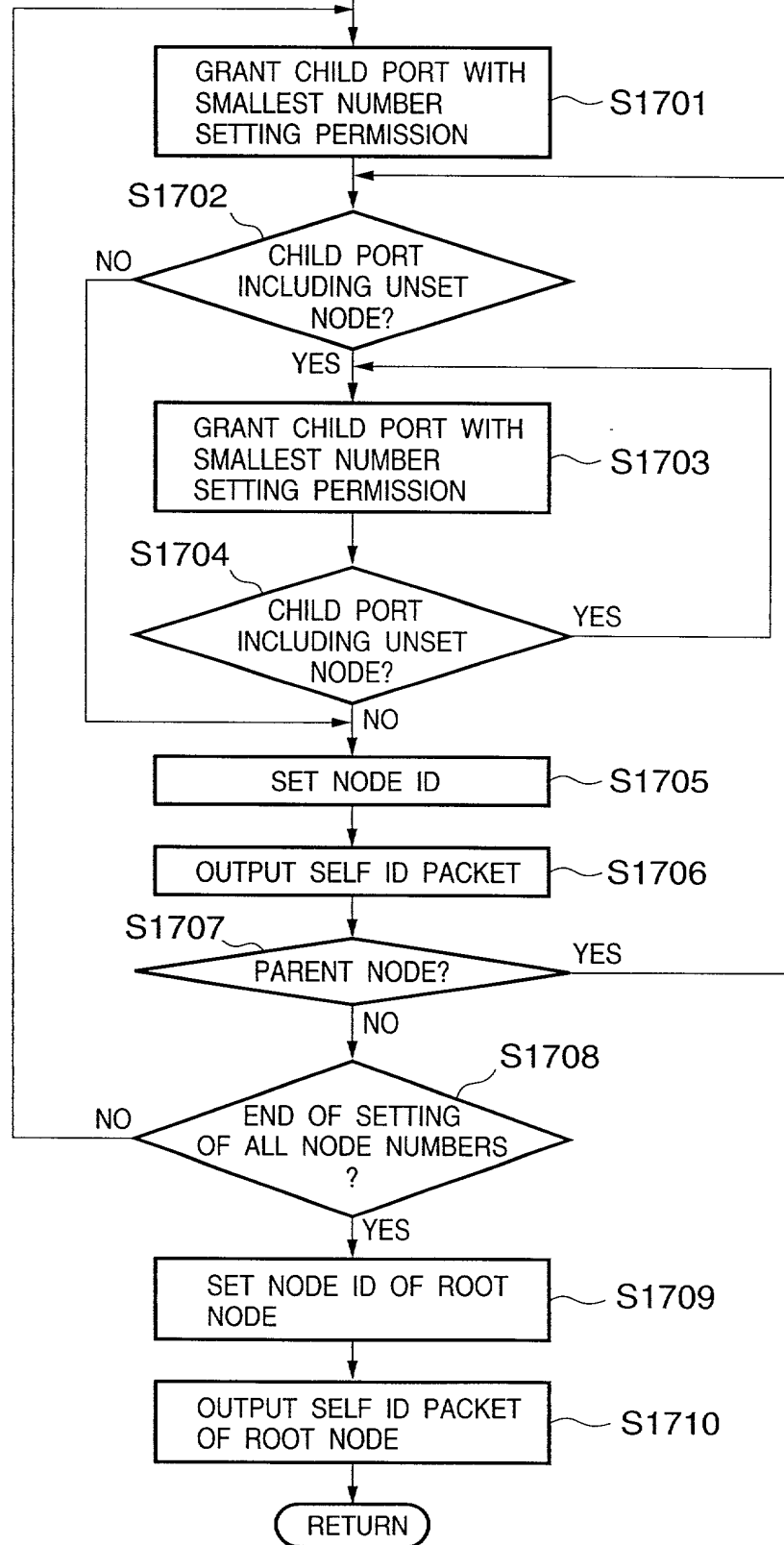


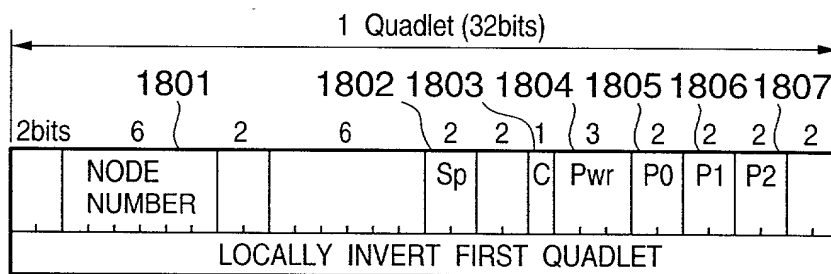
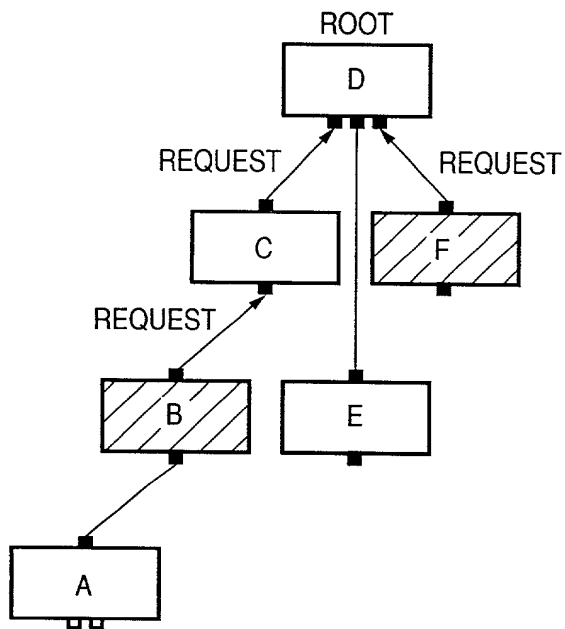
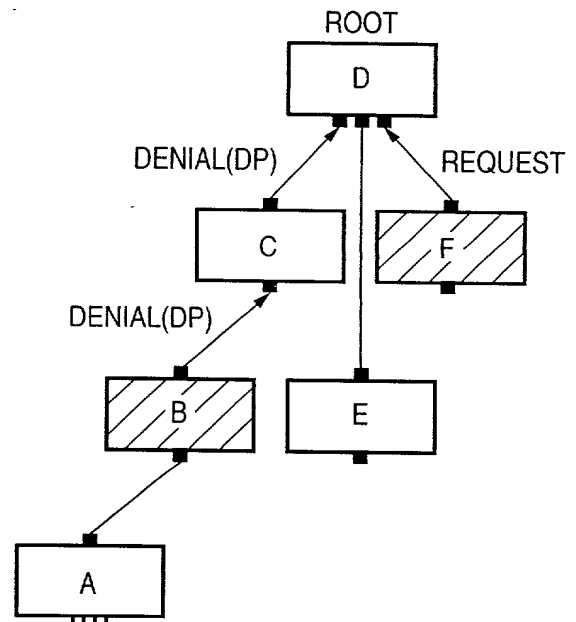
FIG. 18

FIG. 19A

REQUEST RIGHT TO USE BUS

FIG. 19B

PERMIT RIGHT TO USE BUS

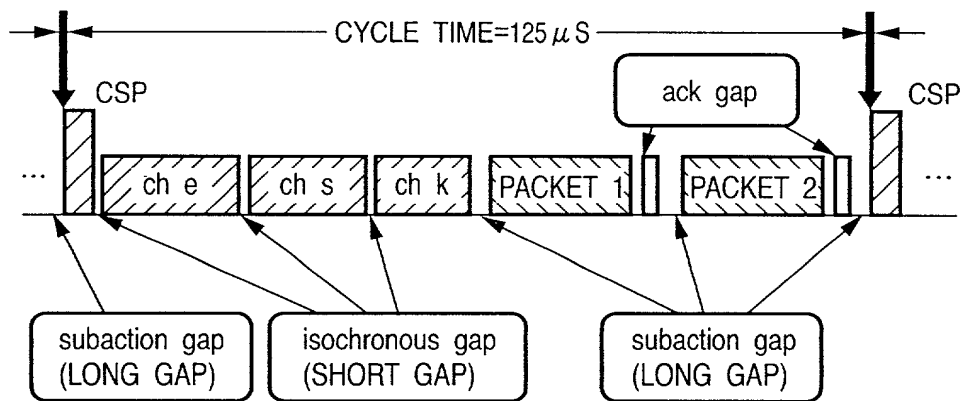
FIG. 20

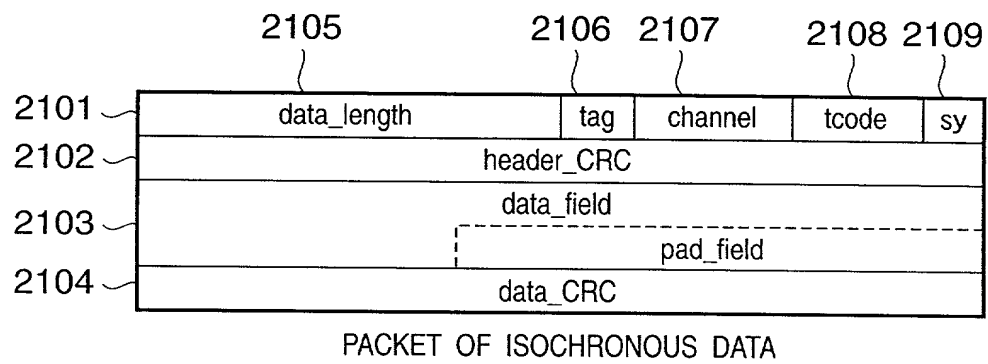
FIG. 21

FIG. 22

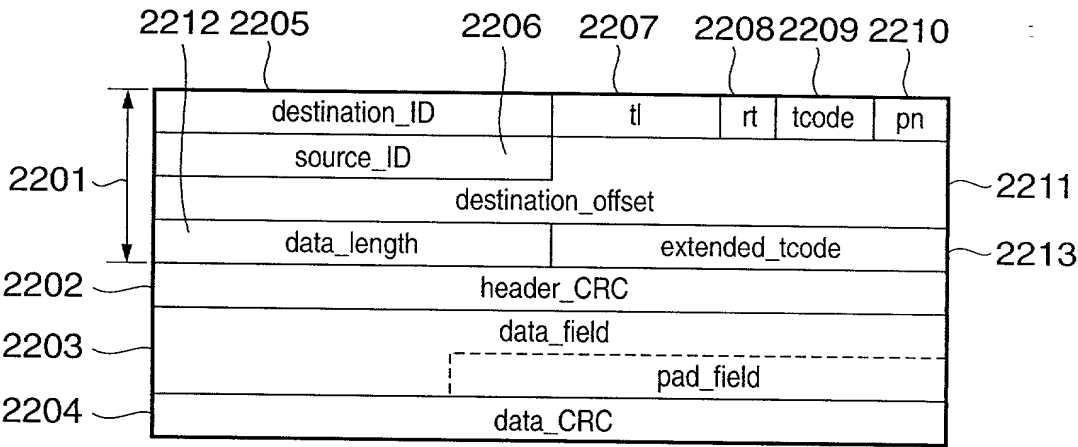


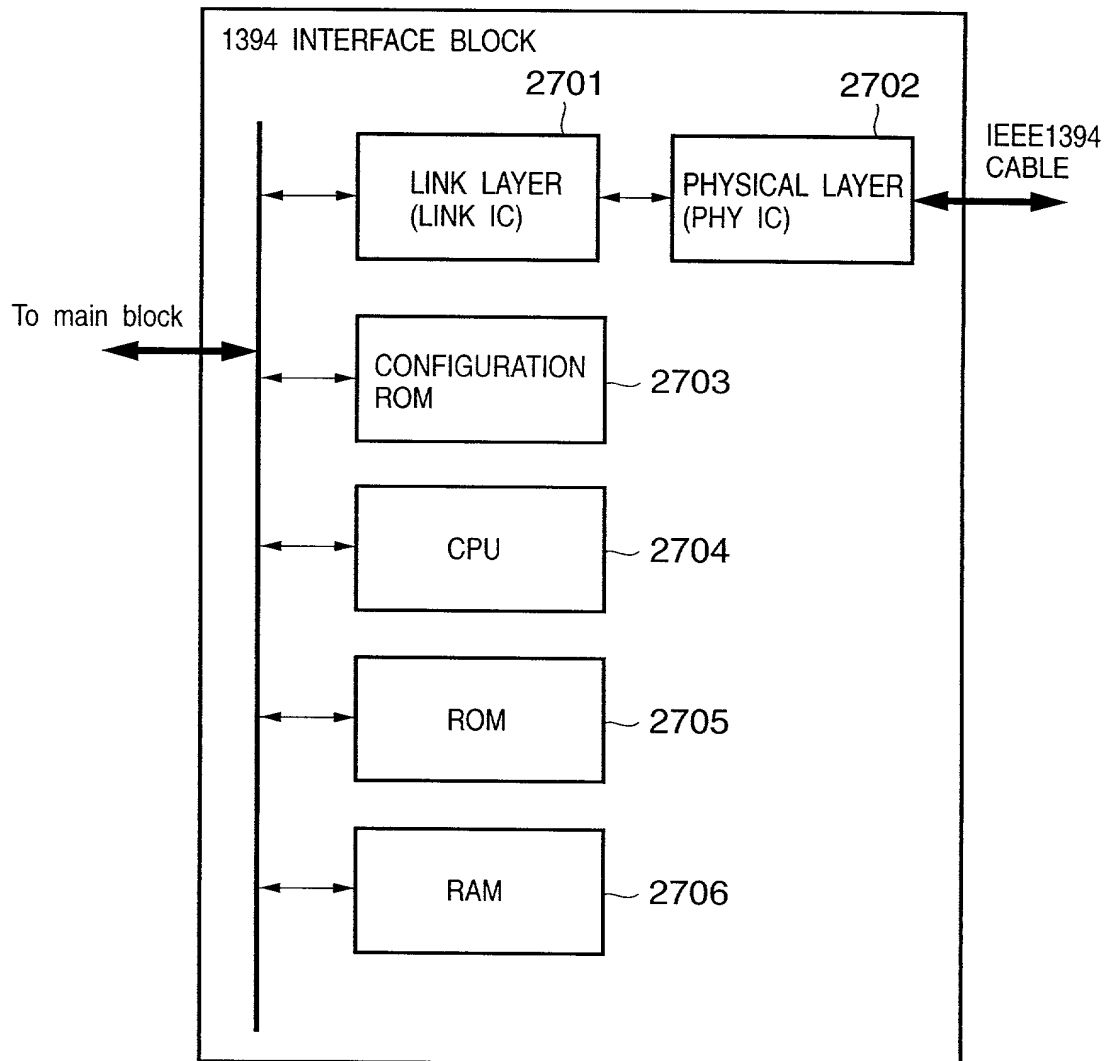
FIG. 23

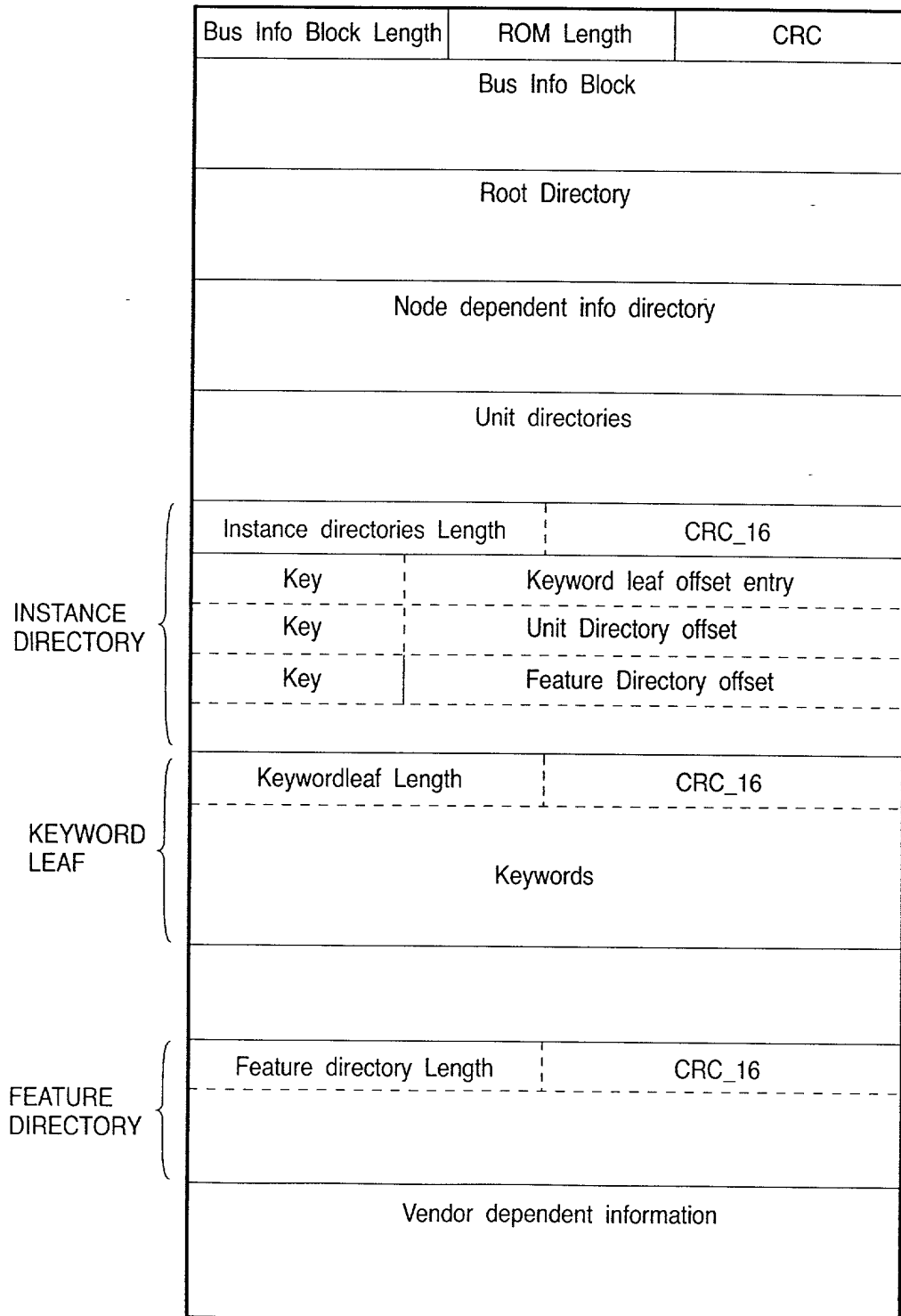
FIG. 24

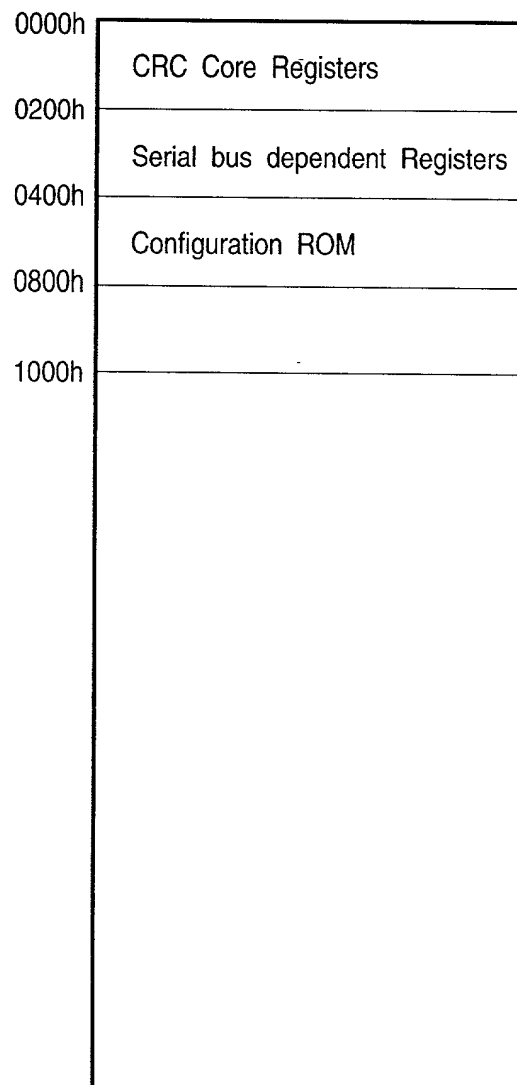
FIG. 25

FIG. 26

SERIAL BUS REGISTER

OFFSET (HEXADECIMAL)	REGISTER NAME	FUNCTION
200	CYCLE_TIME	COUNTER FOR ISOCRONOUS TRANSFER
204	BUS_TIME	REGISTER FOR SYNCHRONIZING TIME
208	POWER_FAIL_IMMINENT	REGISTER ASSOCIATED WITH POWER SUPPLY
20C	POWER_SOURCE	
210	BUSY_TIMEOUT	CONTROL RETRY OF TRANSACTION LAYER
214~218		RESERVED
21C	BUS_MANAGER_ID	NODE TRANSFER OF BUS MANAGER
220	BANDWIDTH_AVAILABLE	MANAGE BANDWIDTH OF ISOCRONOUS TRANSFER
224~228	CHANNELS_AVAILABLE	MANAGE CHANNEL NUMBER OF ISOCRONOUS TRANSFER
22C	MAIN_CONTROL	DIAGNOSIS REGISTER
230	MAIN_UTILITY	
234~23C		RESERVED
240	REMOTE_BUS_RESET	INDICATE BUS RESET IN REMOTE BUS
244	EVENT_CONTROL	MANAGE EVENTS

FIG. 27

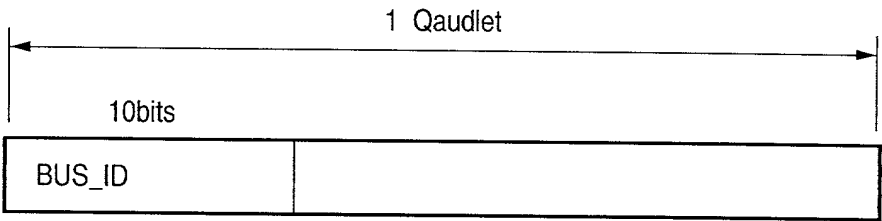


FIG. 28

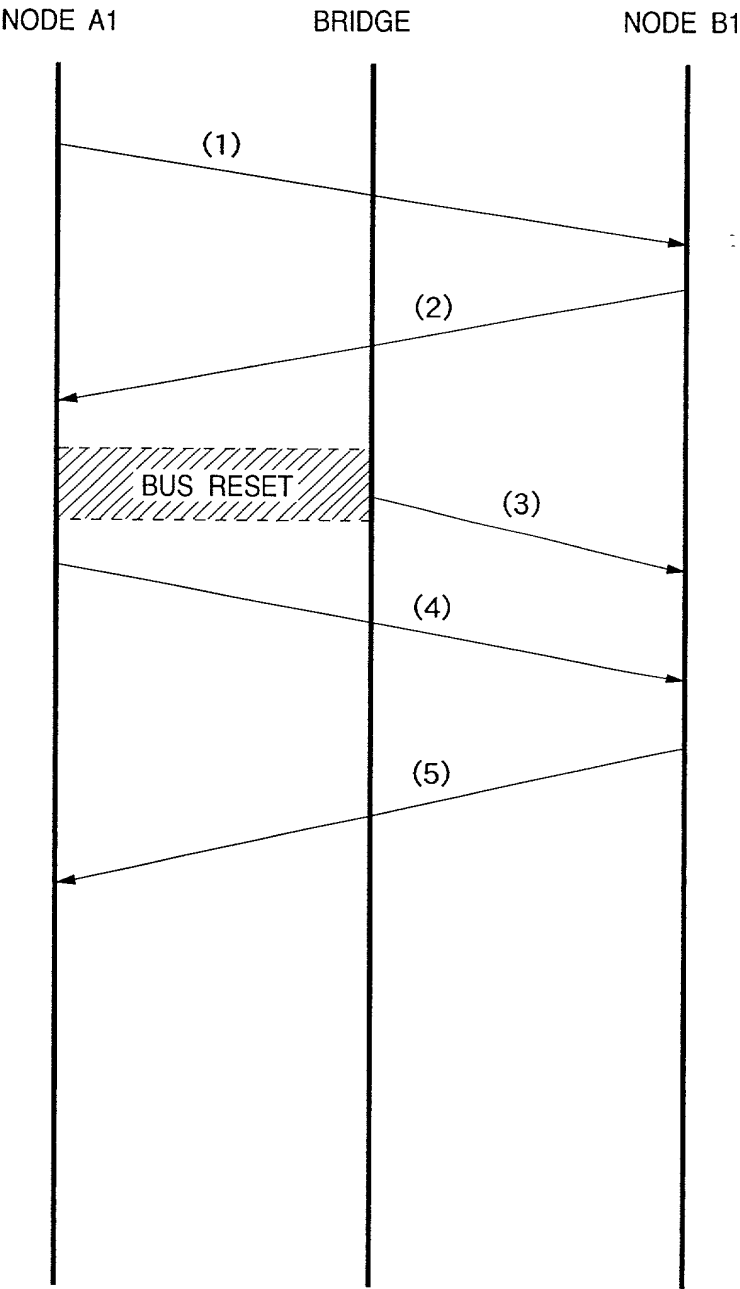


FIG. 28

FIG. 29

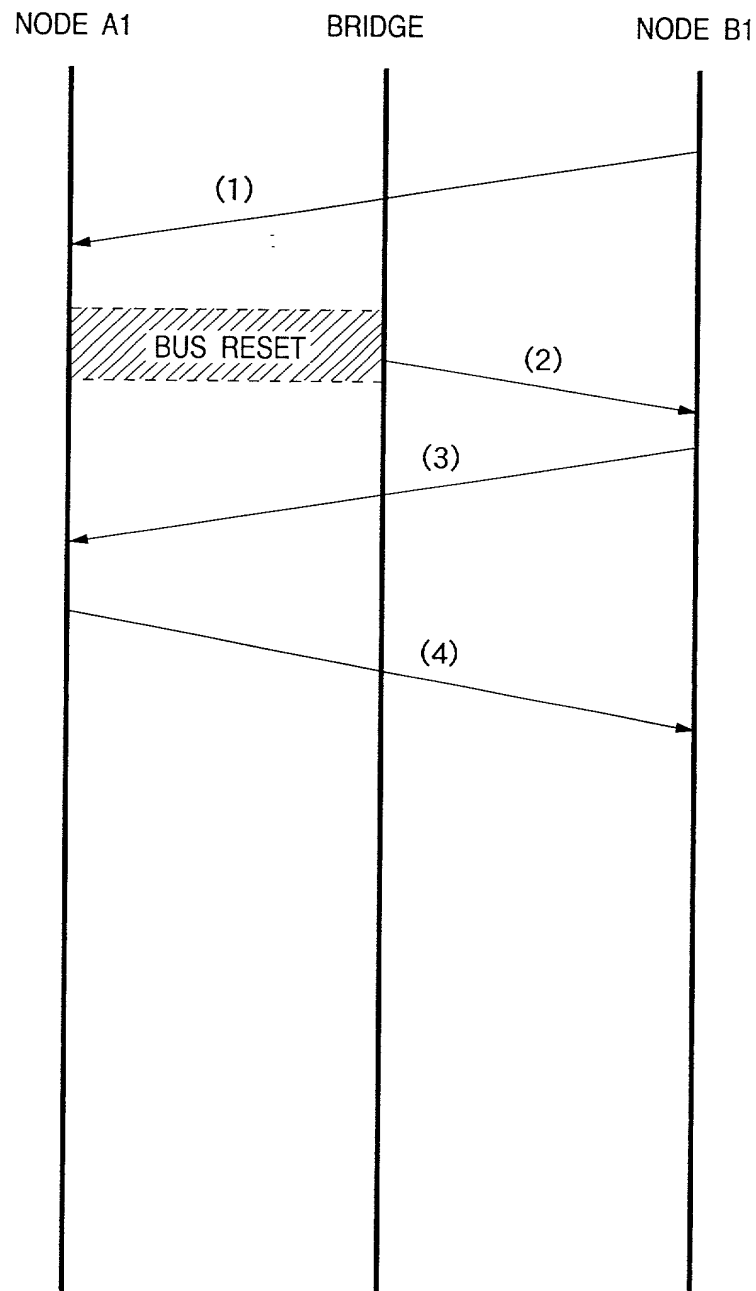
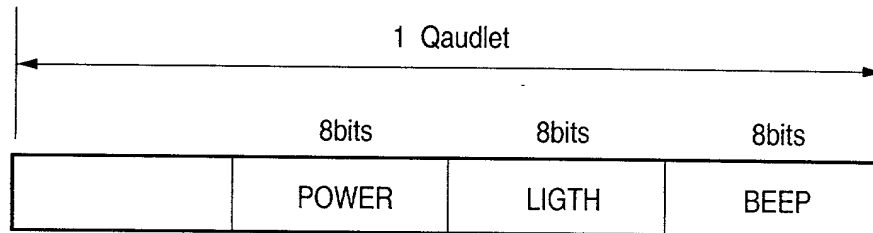


FIG. 29

FIG. 30

BEEP = 0 NOT BEEP
 1 CONTINUOUSLY BEEP
 2 INTERMITTENTLY BEEP

LIGHT = 0 NOT EMIT LIGHT
 1 EMIT LIGHT
 2 FLICKER

POWER = 0 NOT CONTROL
 1 TURN ON POWER SUPPLY
 2 TURN OFF POWER SUPPLY

FIG. 31